## LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Currently Amended) An ultrasonic puncture needle comprising:
- a sheath which is inserted adapted for insertion into a treatment tool insertion channel of an ultrasonic endoscope; and
- a pipe-shaped needle tube for being inserted into tissue within the body cavity through the sheath, which includes,
- a cutting tip portion formed in a sharp shape with a smaller cross-section in a tip-ward direction, the cutting tip portion being provided on a tip side of the needle tube, and
- a plurality of staggered-array annular-shaped recesses formed after formation of the cutting tip portion, the annular-shaped recesses having flat surfaces on bottoms and sides thereof-and with smoothly curving interfaces therebetween, the annular-shaped recesses provided from a back surface of the cutting tip portion near a tip of the needle tube to a predetermined range on a surface of a tip portion of the needle tube, which is an area excluding the cutting tip portion.
- (Previously Presented) The ultrasonic puncture needle according to Claim 1, wherein the plurality of annular-shaped recesses are arrayed so as to be spread in a radial pattern from the tip of the needle tube.
- (Previously Presented) The ultrasonic puncture needle according to Claim 1, wherein the
  multiple annular-shaped recesses are formed using a laser apparatus or an electric discharge
  machining apparatus.

CAOT 3D 4D1 (C) 140 () 1730C) Amond 1730C am04 doo

- 4. (Previously Presented) The ultrasonic puncture needle according to Claim 3, wherein the multiple annular-shaped recesses are formed using a laser apparatus or an electric discharge machining apparatus under positioning control set so that the annular-shaped recesses have no adverse effects on a cutting-tip portion forming the needle tube due to overlap of the annular-shaped recesses and the cutting-tip portion.
- 5. (Currently Amended) An ultrasonic puncture needle comprising a pipe-shaped needle tube which is to be inserted adapted for insertion into a treatment tool insertion channel of an ultrasonic endoscope so as to be inserted into tissue within the body cavity, wherein the needle tube includes:

a cutting tip portion formed in a sharp shape with a smaller cross-section in a tip-ward direction, the cutting tip portion being provided on a tip side of the needle tube, and

a plurality of annular-shaped recesses formed after formation of the cutting tip portion, the annular-shaped recesses having flat surfaces on bottoms and sides thereof and with smoothly curving interfaces therebetween, the annular-shaped recesses provided from a back surface of the cutting tip portion near a tip of the needle tube to a predetermined range on a surface of a tip portion of the needle tube, which is an area excluding the cutting tip portion.

- 6. (Previously Presented) The ultrasonic puncture needle according to Claim 5, wherein the plurality of recesses are arrayed so as to be spread in a radial pattern from the tip of the needle tube.
- 7. (Previously Presented) The ultrasonic puncture needle according to Claim 5, wherein the plurality of recesses are formed at positions such that overlap of the recesses and the cutting-tip portion does not occur.

- 8. (Previously Presented) The ultrasonic puncture needle according to Claim 6, wherein the plurality of recesses are formed at positions such that overlap of the recesses and the cutting-tip portion does not occur.
- (Currently Amended) The ultrasonic puncture needle according to Claim 5, wherein the
  plurality of recesses are formed in [[a]] the annular-shape using a laser apparatus or an electric
  discharge machining apparatus.
- 10. (Currently Amended) The ultrasonic puncture needle according to Claim 6, wherein the plurality of recesses are formed in [[a]] the annular-shape using a laser apparatus or an electric discharge machining apparatus.
- 11. (Previously Presented) The ultrasonic puncture needle according to Claim 7, wherein the plurality of recesses are formed in a annular-shape using a laser apparatus or an electric discharge machining apparatus.

12. (Currently Amended) An ultrasonic puncture needle comprising:

a puncturing portion formed with a suitable length at the tip of the ultrasonic puncture needle; and

a tube portion formed in the shape of a tube at the rear end of the puncturing portion, wherein the puncturing portion is formed of a cutting-tip portion having a sharp shape with a smaller cross-section in a tip-ward direction, the cutting tip portion being provided on a tip side of the puncturing portion and a tube-shaped portion formed as an extension of the tube portion, which includes a plurality of annular-shaped recesses formed after formation of the cutting tip portion, the annular-shaped recesses having flat surfaces on bottoms and sides thereof and with smoothly curving interfaces therebetween, the annular-shaped recesses provided from a back surface of the cutting tip portion near a tip of the needle tube, said annular-shaped recesses being formed on the surface of the tip portion of the needle tube, which is an area excluding the cutting tip portion.

- 13. (Previously Presented) The ultrasonic puncture needle according to Claim 12, wherein the plurality of annular-shaped recesses are formed and arrayed so as to be spread over a predetermined range on the surface of the tip portion in a radial pattern from the tip of the tube portion on the back side of the cutting-tip portion.
- 14. (Previously Presented) The ultrasonic puncture needle according to Claim 13, wherein the plurality of annular-shaped recesses are formed using a laser apparatus or an electric discharge machining apparatus.
- 15. (Previously Presented) The ultrasonic puncture needle according to Claim 14, wherein the plurality of annular-shaped recesses are formed at positions such that overlap of the recesses and the cutting-tip portion forming the needle tube does not occur, using a laser apparatus or an electric discharge machining apparatus.

0.101 \$23 40\$100 140 # 12206 4 ...... #12206 .....04 do...

- 16. (Previously Presented) The ultrasonic puncture needle according to Claim 12, wherein the ultrasonic-reflection means comprises a plurality of recessed portions formed and arrayed so as to be spread in a predetermined range on the surface of the tip portion in a radial pattern from the tip of the tube portion on the back side of the cutting-tip portion.
- 17. (Previously Presented) The ultrasonic puncture needle according to Claim 16, wherein the plurality of recessed portions are formed at positions such that overlap of the recessed portions and the cutting-tip portion does not occur.
- 18. (Currently Amended) The ultrasonic puncture needle according to Claim 16, wherein the plurality of recessed portions are formed in [[a]] the annular-shape using a laser apparatus or an electric discharge machining apparatus.
- 19. (Currently Amended) The ultrasonic puncture needle according to Claim 17, wherein the plurality of recessed portions are formed in [[a]] the annular-shape using a laser apparatus or an electric discharge machining apparatus.